

What is claimed is:

1. A method of editing a set of information comprising a plurality of objects, the method comprising:

receiving a first set of at least one command in a graphical editor, said graphical editor allowing the  
5 information in the set to be edited by graphical manipulation of graphical representations of the plurality of the objects, said graphical representations comprising at least one selected from a graphic and a text character; and

10 displaying at a location on a display screen a text-based editor for at least one selected from:

adding text to, and

altering text of,

a portion of the information, the portion and the location

15 responsive to at least the first set of at least one command.

2. The method of claim 1 additionally comprising:

receiving from an author at least one text alteration via the text-based editor; and

altering the information responsive to the receipt of  
5 the at least one text alteration and the first set of at  
least one command.

3. The method of claim 2:

additionally comprising receiving a second set of at  
least one command after at least a portion of the first set  
10 of at least one command is received; and

wherein the altering step is responsive to the second  
set of at least one command.

4. The method of claim 1 wherein the first set of at  
least one command comprises a selection of at least one of  
the plurality of objects.

5. The method of claim 4 wherein the location is  
responsive to a location of the at least one object  
selected.

6. The method of claim 1 wherein the first set of at  
least one command comprises an indication of a location of  
an insertion point.

7. The method of claim 6 wherein the displaying step  
comprises displaying the text-based editor responsive to  
the location of the insertion point.

8. The method of claim 1 wherein at least a plurality of the plurality of objects each comprise a command, and the text based editor allows at least one selected from an addition and an alteration of not more than one of said commands at one time and an addition of not more than one additional command at a time.

9. The method of claim 8 wherein said commands each comprise not more than one begin tag and the additional command comprises not more than one additional begin tag.

10. The method of claim 1 additionally comprising displaying at a second location of a display screen an additional text based editor for at least one selected from:

adding text to, and

altering text of,

at least a second portion of the information, at least one selected from the second portion and the second location unresponsive to at least the first set of at least one command.

11. The method of claim 1 wherein the information comprises source code.

12. The method of claim 11 wherein the source code comprises source code for a web page.

13. The method of claim 11 wherein the source code comprises source code for graphical information.

14. The method of claim 1:

additionally comprising identifying an initial text responsive to the set of information and the indication of the at least one command; and

5 wherein the displaying step is responsive to the initial text identified.

15. The method of claim 1 wherein the text-based editor operates in one of a plurality of modes of operation responsive at least to the first set of at least one command.

16. The method of claim 15:

additionally comprising identifying a label responsive to the indication of the at least one command;

5 wherein the displaying step is responsive to the initial text identified; and

wherein the label identifies the one of the plurality of modes of operation of the text-based editor.

17. The method of claim 1 wherein the displaying step comprises:

identifying at least one label responsive to the first set of at least one command; and

5 displaying the at least one label identified.

18. The method of claim 1:

wherein the text-based editor accepts at least one word from a plurality of possible words; and

the method additionally comprising displaying the  
5 plurality of possible words.

19. The method of claim 18 wherein the displaying the plurality of possible words is responsive to a location of a cursor in the text editor.

20. The method of claim 18 wherein:

the plurality of possible words comprises at least one value of an attribute; and

the displaying the plurality of possible words step is  
5 responsive to at least one value of each of at least one corresponding attribute in the set of information.

21. The method of claim 1 wherein:

the text-based editor is additionally for receiving a command indicating a request to select a subset of text in the text-based editor; and

5 the method additionally comprising selecting the subset of text responsive to said command.

22. The method of claim 1, additionally comprising:  
checking a syntax of the text; and  
altering the text responsive to the checking step.

23. A system for editing a set of information comprising a plurality of objects, the system comprising:

a graphics editor having a first input for receiving a first set of at least one command, and a second input for  
5 receiving the set of information, the graphics editor for allowing the information in the set to be edited by graphical manipulation received at the graphics editor first input of graphical representations of the plurality of the objects provided at a graphics editor first output,  
10 said graphical representations comprising at least one graphic and comprising at least zero text characters, said graphics editor additionally for providing an indication of the at least one command in the first set at a graphics editor second output; and

15 an editor manager having a first input coupled to the  
graphics editor second output for receiving the indication,  
and a second input for receiving the set of information,  
the editor manager for displaying at a location of a  
display screen via a first output a text-based editor for  
20 at least one selected from:

adding text to, and

altering text of,

a portion of the information, the portion and the  
location responsive to the first set of at least one  
25 command.

24. The system of claim 23 wherein:

the editor manager is additionally for receiving from  
an author at a third input at least one text alteration and  
for providing at least the text alteration at a second  
5 output; and

the system additionally comprising a commit manager  
having a first input coupled to the editor manager output  
for receiving the text alteration, and a second input for  
receiving at least a portion of the set of information, the  
10 commit manager for altering via a second output the set of

information responsive to the at least one text alteration and the first set of at least one command.

25. The system of claim 24 wherein the commit manager alters the set of information additionally responsive to a  
15 second set of at least one command received at a third input after at least a portion of the first set of at least one command is received.

26. The system of claim 23 wherein the first set of at least one command comprises a selection of at least one of the plurality of objects.

27. The system of claim 26 wherein the location of the text-based editor displayed by editor manager is responsive to a location of the at least one object selected.

28. The system of claim 23 wherein the first set of at least one command comprises an indication of a location of an insertion point.

29. The system of claim 28 wherein the location of the text-based editor displayed by editor manager is responsive to the location of the insertion point.

30. The system of claim 22 wherein at least a plurality of the plurality of objects each comprise at least one command and the text-based editor provided by the



editor manager allows at least one selected from an  
5 alteration of not more than one of said commands at one  
time and an addition of not more than one additional  
command at a time.

31. The system of claim 30 wherein said commands each  
comprise not more than one begin tag and the additional  
command comprises not more than one begin tag.

32. The system of claim 22 additionally comprising a  
5 code editor for displaying an additional text based editor  
at a second location of a display screen, the additional  
text based editor for at least one selected from:

adding text to, and

altering text of,

10 at least a second portion of the information, at least  
one selected from the second portion and the second  
location unresponsive to at least the first set of at least  
one command.

33. The system of claim 23 wherein the information  
comprises source code.

34. The system of claim 33 wherein the source code  
comprises source code for a web page.

35. The system of claim 33 wherein the source code comprises source code for graphical information.

36. The system of claim 34:

5 additionally comprising an initial text/label selector having a first input coupled to the graphics editor second output for receiving the indication of the at least one command, and a second input operatively coupled for receiving the set of information, the initial text/label selector for identifying an initial text responsive to the indication and the set of information and providing the initial text at an output; and

10 wherein the editor manager additionally comprises a third input coupled to the initial text/label selector for receiving the initial text and the editor manager displays the text editor responsive to the initial text.

37. The system of claim 34 wherein the editor manager operates the text-based editor in one of a plurality of modes of operation responsive at least to the first set of at least one command.

38. The system of claim 37:

additionally comprising an initial text/label selector having a first input coupled to the graphics editor second output for receiving the indication of the at least one

5 command, the initial text/label selector for identifying a  
label responsive to the indication and providing the label  
at an output;

wherein the editor manager additionally comprises a  
third input coupled to the initial text/label selector for  
10 receiving the label and the editor manager displays the  
text editor responsive to the label; and

wherein the label identifies the one of the plurality  
of modes of operation of the text-based editor.

39. The system of claim 23:

additionally comprising an initial text/label selector  
having a first input coupled to the graphics editor second  
output for receiving the indication of the at least one  
5 command, the initial text/label selector for identifying a  
label responsive to the indication and providing the label  
at an output;

wherein the editor manager additionally comprises a  
third input coupled to the initial text/label selector for  
10 receiving the label and the editor manager displays the  
text editor responsive to the label.

40. The system of claim 23:

wherein editor manager additionally comprises a third input operatively coupled for receiving at least one word from a plurality of possible words; and

5 the system additionally comprising a hint manager for displaying at an output the plurality of possible words.

41. The system of claim 40, wherein:

the text-based editor comprises a cursor having a location provided at a second output of the editor manager; and

5 the hint manager comprises a first input coupled to the editor manager second output for receiving the location of the cursor, and the hint manager displays the plurality of possible words responsive to the location of a cursor.

42. The system of claim 40 wherein:

the plurality of possible words comprises at least one value of an attribute; and

the hint manager additionally comprises a second input  
5 operatively coupled for receiving the set of information, and the hint manager displays the plurality of possible words responsive to at least one value of each of at least one corresponding attribute in the set of information.

43. The system of claim 23 wherein:

the editor manager additionally comprises a third input for receiving a command indicating a request to select a subset of text in the text-based editor; and

5 the editor manager additionally for selecting the subset of text responsive to said command received at the editor manager third input.

44. The system of claim 23, wherein the editor manager is additionally for checking a syntax of the text and altering the text responsive to the editor manager identifying a syntax error.

45. A computer program product comprising a computer useable medium having computer readable program code embodied therein for editing a set of information comprising a plurality of objects, the computer program  
5 product comprising computer readable program code devices configured to cause a computer to:

receive a first set of at least one command in a graphical editor, said graphical editor allowing the information in the set to be edited by graphical  
10 manipulation of graphical representations of the plurality of the objects, said graphical representations comprising at least one graphic and comprising at least zero text characters; and

display at a location on a display screen a text-based  
15 editor for at least one selected from:

adding text to, and

altering text of,

a portion of the information, the portion and the location  
responsive to at least the first set of at least one  
20 command.

46. The computer program product of claim 45  
additionally comprising computer readable program code  
devices configured to cause the computer to:

5 receive from an author at least one text alteration  
via the text-based editor; and

alter the information responsive to the receipt of the  
at least one text alteration and the first set of at least  
one command.

47. The computer program product of claim 46:

10 additionally comprising computer readable program code  
devices configured to cause the computer to receive a  
second set of at least one command after at least a portion  
of the first set of at least one command is received; and

wherein the computer readable program code devices  
15 configured to cause the computer to alter are responsive to  
the second set of at least one command.

48. The computer program product of claim 47 wherein  
the first set of at least one command comprises a selection  
of at least one of the plurality of objects.

49. The computer program product of claim 48 wherein  
the location is responsive to a location of the at least  
one object selected.

50. The computer program product of claim 45 wherein  
the first set of at least one command comprises an  
indication of a location of an insertion point.

51. The computer program product of claim 50 wherein  
the displaying step comprises displaying the text-based  
editor responsive to the location of the insertion point.

52. The computer program product of claim 45 wherein  
at least a plurality of the plurality of objects each  
comprise a command, and the text based editor allows at  
least one selected from an addition and an alteration of  
5 not more than one of said commands at one time and an  
addition of not more than one additional command at a time.

53. The computer program product of claim 52 wherein  
said commands each comprise not more than one begin tag and

the additional command comprises not more than one begin tag.

53. The computer program product of claim 45 additionally comprising computer readable program code devices configured to cause the computer to display at a second location of a display screen an additional text based editor for at least one selected from:

adding text to, and

altering text of,

at least a second portion of the information, at least one selected from the second portion and the second location unresponsive to at least the first set of at least one command.

55. The computer program product of claim 45 wherein the information comprises source code.

56. The computer program product of claim 55 wherein the source code comprises source code for a web page.

57. The computer program product of claim 55 wherein the source code comprises source code for graphical information.

58. The computer program product of claim 45:



additionally comprising computer readable program code  
devices configured to cause the computer to identify an  
initial text responsive to the set of information and the  
5 indication of the at least one command; and

wherein the computer readable program code devices  
configured to cause the computer to display are responsive  
to the initial text identified.

59. The computer program product of claim 45 wherein  
the text-based editor operates in one of a plurality of  
modes of operation responsive at least to the first set of  
at least one command.

60. The computer program product of claim 59:

additionally comprising computer readable program code  
devices configured to cause the computer to identify a  
label responsive to the indication of the at least one  
5 command;

wherein the computer readable program code devices  
configured to cause the computer to display are responsive  
to the initial text identified; and

wherein the label identifies the one of the plurality  
10 of modes of operation of the text-based editor.

61. The computer program product of claim 45 wherein the computer readable program code devices configured to cause the computer to display comprise computer readable program code devices configured to cause the computer to:

5 identify at least one label responsive to the first set of at least one command; and

display the at least one label identified.

62. The computer program product of claim 45:

wherein the text-based editor accepts at least one word from a plurality of possible words; and

the computer program product additionally comprising  
5 computer readable program code devices configured to cause the computer to display the plurality of possible words.

63. The computer program product of claim 62 wherein the computer readable program code devices configured to cause the computer to display the plurality of possible words are responsive to a location of a cursor in the text  
5 editor.

64. The computer program product of claim 62 wherein:

the plurality of possible words comprises at least one value of an attribute; and

the computer readable program code devices configured  
5 to cause the computer to display the plurality of possible  
words step are responsive to at least one value of each of  
at least one corresponding attribute in the set of  
information.

65. The computer program product of claim 45 wherein:

the text-based editor is additionally for receiving a  
command indicating a request to select a subset of text in  
the text-based editor; and

5 the computer program product additionally comprising  
computer readable program code devices configured to cause  
the computer to select the subset of text responsive to  
said command.

66. The computer program product of claim 45,  
additionally comprising computer readable program code  
devices configured to cause the computer to:

check a syntax of the text; and

5 alter the text responsive to the computer readable  
program code devices configured to cause the computer to  
check.